

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1-3. (Canceled).

4. (Currently Amended) A packet communication method in a packet communication system, the packet communication system comprising:

a user communication apparatus;

an operator communication apparatus that performs communications with the user communication apparatus; and

a communication network that performs communications with both the user communication apparatus and the operator communication apparatus, wherein:

the user communication apparatus comprising comprises:

an internal network;

a base station apparatus connected to the internal network;

an internal server connected to the internal network;

a radio network control apparatus connected between the internal network and the operator communication apparatus; and

a mobile communication terminal apparatus that performs communications with the base station apparatus by radio signals, and

the operator communication apparatus comprises:

a serving general packet radio service support node connected to the radio network control apparatus through a relay network; and

a gateway general packet radio service support node connected between the serving general packet radio service support node and the communication network, and

wherein:

the packet communication method comprises:

(a) in the serving general packet radio service support node, a receiving step of receiving information related to an internal server access transmitted from the mobile communication terminal apparatus, through the base station apparatus and the radio network control apparatus; and

(b) in the radio network control apparatus, a transfer step of receiving a packet transmitted from the mobile communication terminal apparatus through the base station apparatus and the internal network, and directly transferring the packet to the internal server through the internal network signal;

wherein the packet communication method comprises:

~~in the radio network control apparatus, a determination step of referring to an inner address table storing addresses of packets to be directly transferred to the internal server and comparing an address of a packet from the mobile communication terminal apparatus with the addresses in the internal address table to be directly transferred to the internal server to determine whether or not the packet from the mobile communication terminal apparatus is to be directly transferred to the internal server; and~~

~~a transfer step of directly transferring the packet to the internal server through the internal network when it is determined in the determination step that the packet is to be directly transferred to the internal server.~~

5 and 6. (Canceled).

7. (New) A packet communication system comprising:

a user communication apparatus;

an operator communication apparatus that performs communications with the user communication apparatus; and

a communication network that performs communications with the user communication apparatus and the operator communication apparatus, wherein:

the user communication apparatus comprises:

an internal network;

a base station apparatus connected to the internal network;

an internal server connected to the internal network;

a radio network control apparatus connected between the internal network and the operator communication apparatus; and

a mobile communication terminal apparatus that performs communications with the base station apparatus by radio signals, and
the operator communication apparatus comprises:

a serving general packet radio service support node connected to the radio network control apparatus through a relay network; and

a gateway general packet radio service support node connected between the serving general packet radio service support node and the communication network, and wherein:

the serving general packet radio service support node receives information related to an internal server access transmitted from the mobile communication terminal apparatus, through the base station apparatus and the radio network control apparatus; and

the radio network control apparatus receives a packet transmitted from the mobile communication terminal apparatus through the base station apparatus and the internal network, and directly transfers the packet to the internal server through the internal network.

8. (New) A serving general packet radio service support node for operation in an operator communication apparatus of a packet communication system, the packet communication system comprising:

a user communication apparatus;

an operator communication apparatus that performs communications with the user communication apparatus; and

a communication network that performs communications with the user communication apparatus and the operator communication apparatus, wherein:

the user communication apparatus comprises:

an internal network;

a base station apparatus connected to the internal network;

an internal server connected to the internal network;

a radio network control apparatus connected between the internal network and the operator communication apparatus; and

a mobile communication terminal apparatus that performs communications with the base station apparatus by radio signals, and

the operator communication apparatus comprises:

the serving general packet radio service support node for being connected to the radio network control apparatus through a relay network; and

a gateway general packet radio service support node for being connected connected between the serving general packet radio service support node and the communication network, and

wherein:

the serving general packet radio service support node comprises:

(a) a section that receives a logical path setting request for packet communication transmitted from the mobile communication terminal apparatus and that sets a radio access bearer between the mobile communication terminal apparatus and the radio network control apparatus; and

(b) a section that receives information related to an internal server access transmitted from the mobile communication terminal apparatus, through the base station apparatus, the internal network and the radio network control apparatus.

9. (New) A mobile communication terminal apparatus for operation in a user communication apparatus of a packet communication system, the packet communication system comprising:

a user communication apparatus;

an operator communication apparatus that performs communications with the user communication apparatus; and

a communication network that performs communications with the user communication apparatus and the operator communication apparatus, wherein:

the user communication apparatus comprises:

an internal network;

a base station apparatus connected to the internal network;

an internal server connected to the internal network;

a radio network control apparatus connected between the internal network and the operator communication apparatus; and

the mobile communication terminal apparatus, which is operable to perform communications with the base station apparatus by radio signals, and

the operator communication apparatus comprises:

a serving general packet radio service support node connected to the radio network control apparatus through a relay network; and

a gateway general packet radio service support node connected between the serving general packet radio service support node and the communication network, and wherein:

the mobile communication terminal apparatus comprises:

- (a) a section that transmits a logical path setting request for packet communication, to the serving general packet radio service support node;
- (b) a section that transmits information related to an internal server access to the serving general packet radio service support node through the base station apparatus, the internal network and the radio network control apparatus; and
- (c) a section that directly transmits a packet to the internal server through the radio network control apparatus, using a radio access bearer set by the serving general packet radio service support node.